

HOLSTEINS

Bulls and Bull Calves for sale. Sired by Canary Tet de Kol His sire and dam are both brother and sister to the sire of the world's champion cow. Grace Fayne 2nd Homestead, Butter 35.55 pounds in 7 days.

Also Woodside Paupet; Dom Paupet, A. R. O. 23.153 lbs. in 7 days. A great grand son of Old Bill Korndyke, A. R. O. 25.12 lbs. in 7 days. For pedigrees and prices write

NELSON BROS.

Richmond

Utah

MARKET QUOTATIONS.

Owing to our extensive circulation, market reports must be closed Wednesday noon. Figures quoted are Salt Lake wholesale prices. These quotations are given at the request of many subscribers and are furnished and corrected weekly by the responsible firm of Vogeler Seed and Produce Co.

Butter and Cheese.

Best creamery butter, 29; cheese, full cream, 17 to 18c.

Vegetables.

Potatoes, \$1.75 to \$1.80.

Poultry and Eggs.

Live hens, 14 to 15c per lb.

Dressed Hens, 17 to 18c. per lb.

Live broilers, 30c. per lb.

Eggs, country run, per case, \$7.00 to \$7.50.

Veal, 10 to 11c; Pork, 8 to 9c.

Grain, Hay and Flour.

Wheat, per 100 lbs., \$2.25; corn, 100 lbs., \$1.85; chop corn, 100 lbs., \$1.90; oats, per 100 lbs., \$2.50; barley per 100 rolled, \$2.15; bran per 100 lbs., \$1.50; flour high patent, per 100 lbs., \$3.30; straight grade, per 100 lbs., \$3.15; alfalfa, baled, 90c cwt.; timothy, baled, \$1.25 cwt.; straw, baled, 40c.

Honey.

Honey, case, \$2.25 and \$2.50, extracted, 6½c. per lb.

STAR FARM HOLSTEINS IN UTAH

Star Farms have recently imported a car-load of registered Holstein bulls, cows and heifers of the famous Star Farm breed, to introduce the stock into Utah. They are being sold to the farmers of this state for less money than they would have brought at home. This car-load won't last long, take advantage of the bargains offered.

Write or call on

VERN BARTHOLOMEW
FILLMORE UTAH, AGENT

HORACE L. BRONSON
CORTLAND, N. Y., PROPRIETOR

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LIVESTOCK

VETERINARY DEPARTMENT.

The Loco Disease of Live Stock in the West.

The so-called loco disease of horses, sheep, and cattle has been for many years a source of serious loss to stockmen in the West, who have generally attributed it to certain weeds eaten by the stock. Investigations which have been made by the United States Department of Agriculture have not only confirmed the supposition as to the poisonous effect of these plants, but have resulted in the discovery and identification of barium as a definite poisonous element in them. Feeding experiments establishing the fact that the plants are responsible for the disease were carried on under field and corral conditions by Dr. C. Dwight Marsh, while the discovery of barium was made in the laboratory by Dr. A. C. Crawford.

The loco weeds are a class of leguminous plants of which the principal ones are the purple loco weed (*Astragalus mollissimus*) and the rattle weed (*Aragallus lamberti*). One or both of these prevail to a greater or less extent over an area including all or parts of Montana, Wyoming, North Dakota, South Dakota, Minnesota, Nebraska, Kansas, Colorado, Utah, Arizona, New Mexico, Texas and Oklahoma.

The characteristic symptoms of the disease are a slow staggering gait, rough coat, staring, vacant look, and emaciation. The affected animals have hallucinations, can not be led or backed, show more or less lack of muscular co-ordination, gradually lose flesh and die. The affection comes on in a slow and cumulative manner, and there is no possibility of animals becoming immune by continually eating the plants.

The proverb, "An ounce of prevention is worth a pound of cure," applies to this disorder. Although good results can often be obtained by the treatment of locoed animals, the most effective way of dealing with the trouble is to keep animals from eating the loco plants. Wherever prac-

ticable the weeds should be exterminated from the range or pasture, and the best way of doing this is simply to cut them out. This method, however, while often practicable on land under private control, can not very well be applied to the public range.

In many cases much can be accomplished by keeping animals away from loco-covered ranges during the time when feed is short, as they are much more likely to contract the habit at such a time. It may sometimes be profitable to feed them for a short time, in order that the loco-eating habit may not be formed.

After animals have become affected the first essential in their treatment is to place them where they can not eat the loco weeds. They should be given plenty of nutritious feed, and so far as practicable feed with laxative properties, such as green alfalfa. Some may recover under this treatment without recourse to medicine. With most animals, however, recovery is hastened by medicinal treatment.

As a result of its experiments the Department of Agriculture suggests the following treatment: For cattle, styrcnine in doses of three-twentieths to four-twentieths of a grain daily, administered hypodermically. For horses, Fowler's solution of arsenic in halfounce doses daily in the drinking water or in the grain. This treatment should be continued for at least a month. To correct the constipation which is almost universal in locoed animals, magnesium sulphate (Epsom salt) may be administered as a drench in 2-ounce doses. Epsom salt may also serve to some extent as an antidote to the poison produced by the weeds. Beneficial results have also been obtained by giving horses daily a drench containing 2 ounces of Epsom salt with 10 drops of dilute sulphuric acid, and by giving cattle tri-weekly 3 to 4 ounces of Epsom salt with a proportional increase in the quantity of dilute sulphuric acid.

As the foregoing treatments are in the experimental stage, the Bureau of Animal Industry, Washington, D. C., would be glad to receive reports of results from their use.

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